

86-637-15129
08/87

Prospecting and Geological Report - Exo Claim Group
Central British Columbia

by

John M. Leask BaSc

Omineca Mining Division

NTS 93F5/E

53°25' Lat. North, 125°42' Long. West

FILMED

Author / Owner: Gordon P. Leask

Operator: Whitesail Joint Venture

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,129

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Introduction

The Exo property is located in the northern Nechako Plateau, 80 kilometers south of Burns Lake, B.C.

The property consists of 20 modified grid claim units staked to cover recently discovered showings of pyrrhotite-scheelite-garnet-diopside skarn and stockwork quartz chalcopyrite-molybdenite-scheelite mineralization of the porphyry type within limy siltstones and marl limestones of the Upper Triassic Takla Group.

Lithologies within the project area (Fig. 1) include steeply dipping cherty hornfels, pyrrhotite rich calcsilicate, garnet-diopside-pyrrhotite-scheelite skarn, unaltered limestone and siltstone, pebble conglomerate, and mafic volcanics.

Prospecting and geological mapping have served to target two main areas of intense skarn type mineralization for follow soil geochem and magnetic surveys.

Claims and Ownership

All claims are within the Omineca Mining Division and are owned by

Gordon P. Leask
843 W. 15th Avenue.
Vancouver B.C. V5Z 1R8

<u>Name</u>	<u>Size</u>	<u>Record #</u>	<u>Record Date</u>
Exo #1	20u	7228	20/08/85

Claim locations are outlined on the geologic map presented in this report Scale 1:10 000

Location, Access and Physiography

Exo property is located within the northern Nechako Plateau between Chelaslie Arm and Tetachuck Arm on Ootsa Lake, 80km South of Burns Lake B.C. (NTS: 93F5/E Latitude 53°25' Longitude 125° 42' W)

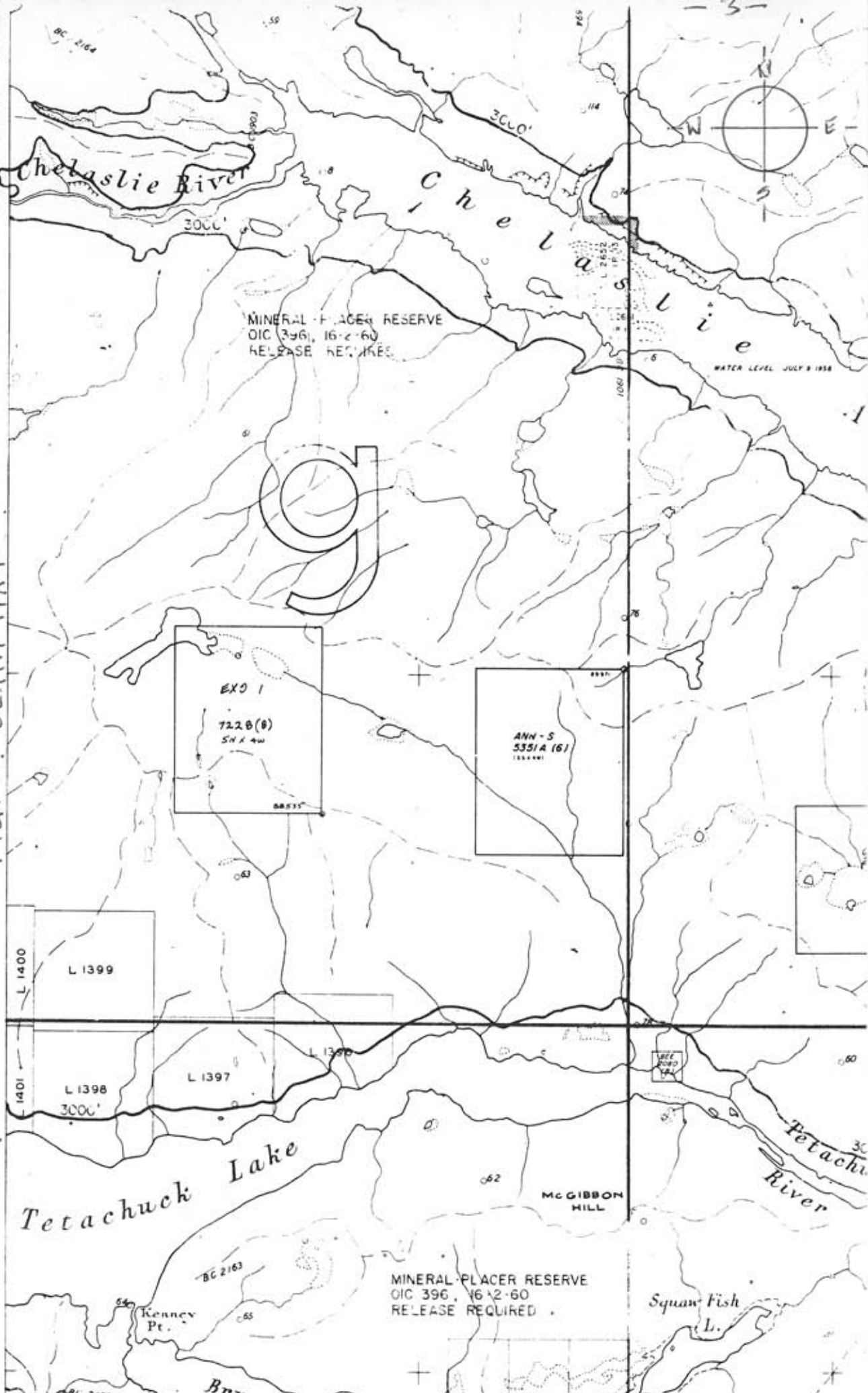
Access to the property is by all weather paved highway south from Burns Lake to Takysie Lake via the Francois Lake ferry. From Takysie Lake to East Ootsa the highway is not paved but passable year round. From East Ootsa access to the property is facilitated via a network of new logging roads of West Fraser Inc. and Eurocan Pulp Ltd on the south side of Ootsa Lake. A company operated barge-ferry is used to carry vehicles and equipment across Ootsa Lake. The Exo property itself is roughly bisected by the new Tetachuck Main logging road.

M93F/5E

0 1 2 km

FIG. 2. CLAIM MAP

TO WEST SEE MAP 93 F/5 W



d

EXD 1
722B(8)
S.N. 4W

ANN-S
533/A (6)
(154400)

L 1399

L 1398

L 1397

Tetachuck Lake

McGIBBON HILL

Tetachuck River

Kenny Pt.

Squaw Fish L.

MINERAL PLACER RESERVE
OIC 396, 16-2-60
RELEASE REQUIRED

- 3 -

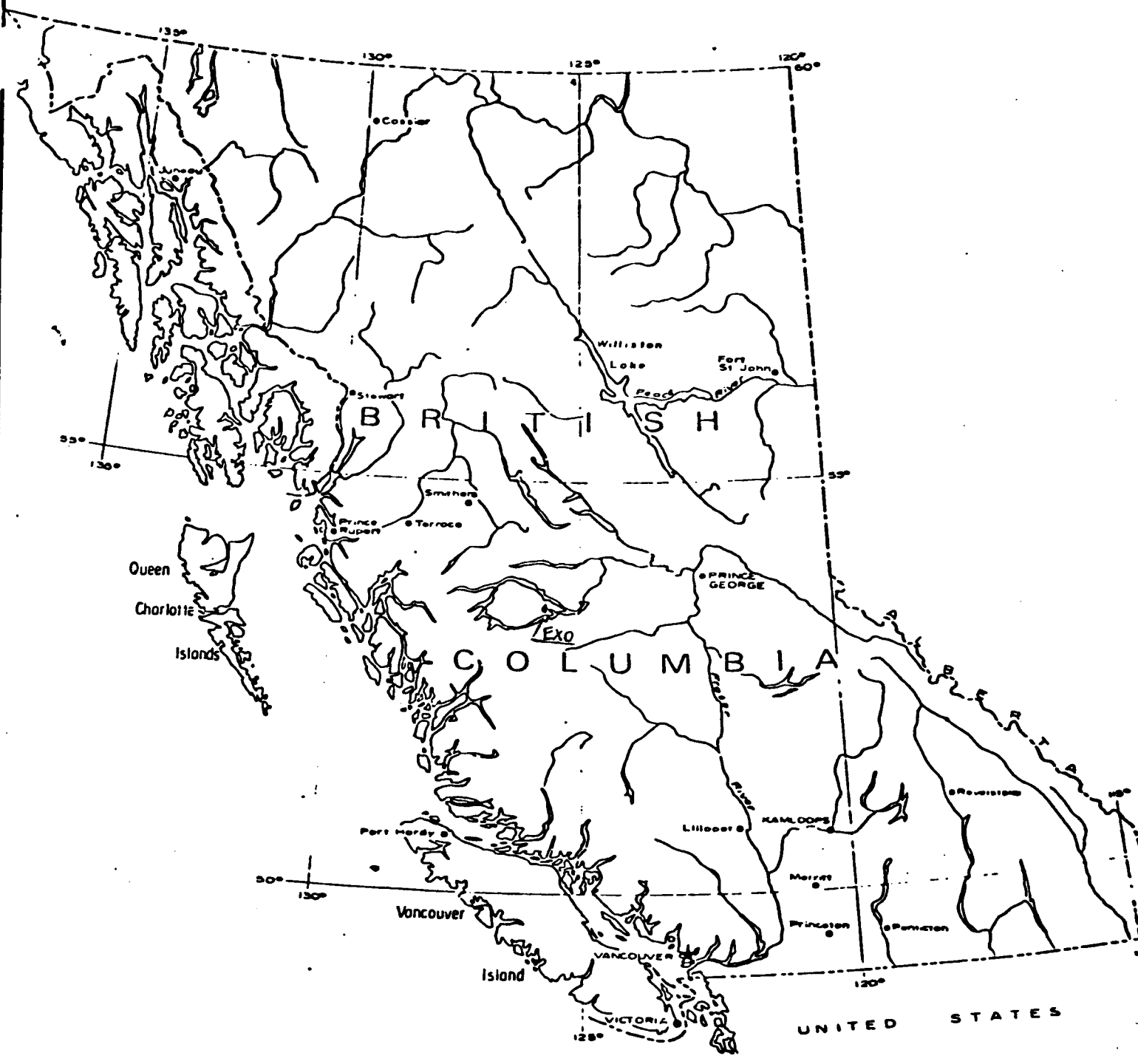


Fig. 1

LEASK ASSOCIATES	
LOCATION MAP	
100 50 0 100 200	
SCALE IN MILES	

Low rolling hummocks typify the topography of the region. Snow cover rarely exceeds 2m but is present from late October to late April.

Exploration History

The Exo property was staked late in the summer of 1985. A total of 20 claim units were staked using the modified grid method, to encompass several newly discovered skarn and stockwork mineralized showings exposed in recent road cuts. Prospecting and geological mapping were conducted during the 1986 field season. Several additional showings of garnet-diopside-pyrrhotite skarn were discovered.

Regional Geology

Regionally the area is underlain by rocks ranging from Upper Triassic to Miocene.

The oldest rocks exposed are Upper Triassic Takla group andesite and basaltic volcanics with minor interbedded argillite and limy sediments. Takla group is conformably overlain by green maroon andesite tuff and breccia of Telkwa Fm. which is in turn overlain by greywache, argillite and siltstone with minor interbedded volcanics of the Nilkitwa Fm..

Eocene subaerial rhyolite, dacite, and associated tuffs and breccias unconformably overly Hazelton and Takla rocks.

Flat lying Miocene Plateau Basalts rest unconformably on all older units.

Cretaceous granite plugs intrude Takla and Hazelton rocks.

Property Geology and Mineralization

Rocks of the Upper Triassic Takla Group underly the property. The dominant lithologies include a thick, steeply dipping succession of intensely hornfelsed and skarned limy siltstone and silty limestone bracketed by basic volcanics and intruded by a Cretaceous granitic plug which outcrops 800m east of the showing.

Several bands of Quartz-Garnet-Diopside-Pyrrhotite skarn with accessory pyrite-scheelite-chalcopyrite-sphalerite mineralization occur on the property. At the main showing a quartz-garnet-diopside-pyrrhotite skarn with accessory pyrite-scheelite-chalcopyrite is exposed over a width of 22 meters grading .25% W_3O_8 . High grade zones average up to .56% W_3O_8 and .44% Cu over 2 meters.

A large zone of stockwork Quartz-pyrite-chalcopyrite-scheelite-molybdenite veinlets occur within intensely bleached and silicified hornfels 200 meters east of the main skarn showing.

This zone grades .62% Cu, .07% W_3O_8 , .06% MoS_2 , .15 oz/ton Ag over 350 meters.

From contact relationships observed it appears that the granite dips under the sediment package at a low angle.

Summary and Recommendations

The Exo prospect exhibits both exoskarn (copper-tungsten-silver) and porphyry stockwork (copper-molybdenum-tungsten-silver) mineralization in proximity to the small Cretaceous granite intrusion.

Mineralization within hornfels and calcsilicate alteration is ubiquitous over an area 3 kilometers by 2 kilometers. Several exo-skarn type showings occur on the property which warrant further exploration by magnetic and soil geochemical surveys.

Statement of Expenditures

Prospecting - Expenses June 29th, 1986 to July 10th, 1986

Gas		256.56
Miscellaneous		240.20
Supplies		320.10
Food		372.12
Truck Rental	7 days at \$40/day	280.00
Boat Rental	7 days at \$20/day	140.00

Wages

John M. Leask - Geological Eng.

8 days at \$250/day	2000.00
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Warren Bauck - Prospector

9 days at \$200/day	1800.00
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Geological Mapping - August 22nd, 1986 to August 26th, 1986

Gas		152.00
Supplies		275.70
Food		220.10
Truck Rental	5 days at \$40/day	200.00

Wages

John M. Leask	5 days mapping at \$250/day	1250.00
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2 days report preparation		
at \$250/day	500.00	

Warren Bauck	5 days mapping at \$200/day	1000.00
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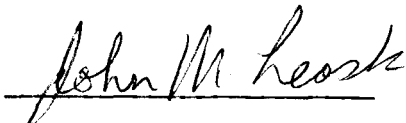
Total	9006.78
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STATEMENT OF QUALIFICATIONS

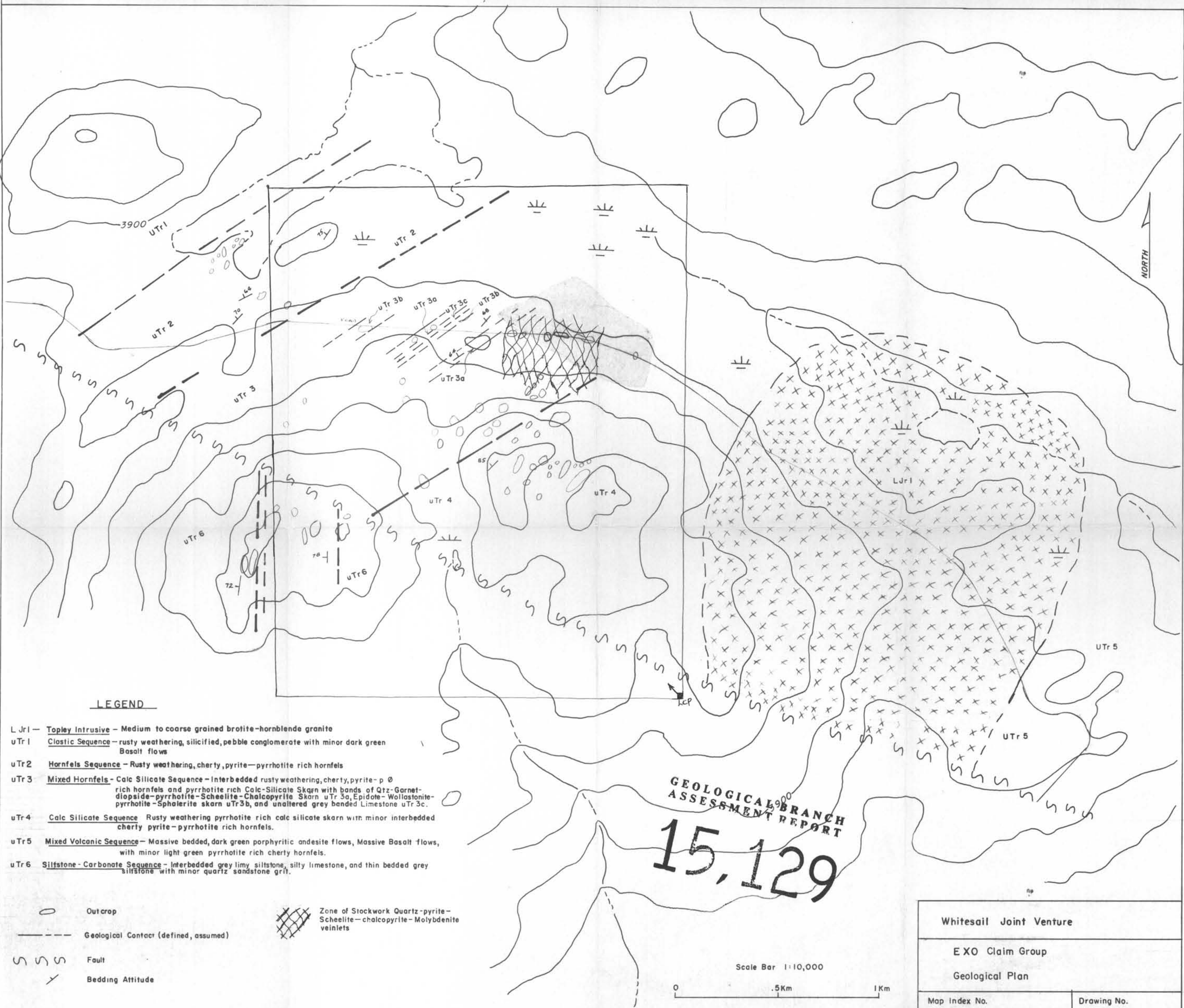
I, JOHN M. LEASK, do hereby certify that:

1. I am a geologist with residence at 843 West 15th Avenue, Vancouver, British Columbia, V5Z 1R8.
2. I am a graduate of the University of British Columbia with Bachelor of Applied Science degree in geological engineering (1980).
3. I have been involved in mining exploration as an independent since 1979.

Respectfully submitted,



JOHN M. LEASK



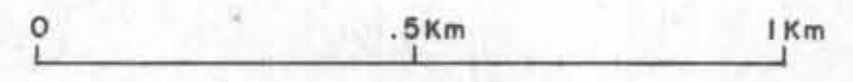
LEGEND

- L Jr1 - **Topley Intrusive** - Medium to coarse grained biotite-hornblende granite
- uTr 1 **Clastic Sequence** - rusty weathering, silicified, pebble conglomerate with minor dark green Basalt flows
- uTr 2 **Hornfels Sequence** - Rusty weathering, cherty, pyrite-pyrrhotite rich hornfels
- uTr 3 **Mixed Hornfels - Calc Silicate Sequence** - Interbedded rusty weathering, cherty, pyrite-pyrrhotite rich hornfels and pyrrhotite rich Calc-Silicate Skarn with bands of Qtz-Garnet-diopside-pyrrhotite-Scheelite-Chalcopyrite Skarn uTr 3a, Epidote-Wollastonite-pyrrhotite-Sphalerite skarn uTr3b, and unaltered grey banded Limestone uTr 3c.
- uTr 4 **Calc Silicate Sequence** - Rusty weathering pyrrhotite rich calc silicate skarn with minor interbedded cherty pyrite-pyrrhotite rich hornfels.
- uTr 5 **Mixed Volcanic Sequence** - Massive bedded, dark green porphyritic andesite flows, Massive Basalt flows, with minor light green pyrrhotite rich cherty hornfels.
- uTr 6 **Siltstone - Carbonate Sequence** - Interbedded grey limy siltstone, silty limestone, and thin bedded grey siltstone with minor quartz sandstone grit.

- Outcrop
- Geological Contact (defined, assumed)
- Fault
- Bedding Attitude
- Zone of Stockwork Quartz-pyrite-Scheelite-chalcopyrite-Molybdenite veinlets

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Scale Bar 1:10,000



Whitesail Joint Venture	
EXO Claim Group	
Geological Plan	
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